

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

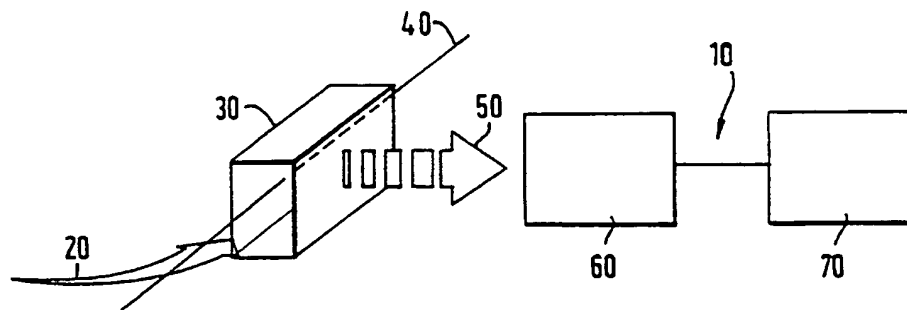
(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
8 March 2001 (08.03.2001)

PCT

(10) International Publication Number
WO 01/15762 A1

- (51) International Patent Classification⁷: A61M 16/01, 16/10, G01N 21/65
- (21) International Application Number: PCT/EP99/06348
- (22) International Filing Date: 28 August 1999 (28.08.1999)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (for all designated States except US):
HEWLETT-PACKARD COMPANY [US/US]; Corporate Offices, 3000 Hanover Street, Palo Alto, CA 94304 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): FISCHER, Bernhard [DE/DE]; Trochelfinger Weg 12, D-71229 Leonberg (DE).
- (74) Agent: BARTH, Daniel; Hewlett-Packard GmbH, Europäische Patent- und Lizenzabt., Herrenberger Strasse 140, D-71034 Böblingen (DE).
- (81) Designated States (national): JP, US.
- (84) Designated States (regional): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).
- Published:**
— With international search report.
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: AVOIDANCE OF POISONING EFFECTS DURING ANESTHESIA



(57) Abstract: For avoiding poisoning effects during anesthesia, the quantitative amount of an anesthetic agent degradation product, preferably carbon monoxide CO and/or trifluoromethane CHF₃, in an anesthetic gas mixture is determined. When the determined quantitative amount of the anesthetic agent degradation product in the anesthetic gas mixture exceeds a given threshold, an alarm is provided. This is preferably accomplished by measuring a Raman spectrum of the gas mixture, and determining the quantitative amount of the anesthetic agent degradation product in the gas mixture by comparing the measured Raman spectrum with a reference spectrum of the anesthetic agent degradation product.

WO 01/15762 A1